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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/361,371	07/26/1999	ALAN M. WARWICK	MSFT114130	5436

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CHRISTENSEN, O'CONNOR, JOHNSON, KINDNESS, PLLC  
1420 FIFTH AVENUE  
SUITE 2800  
SEATTLE, WA 98101-2347

EXAMINER

HO, THE T

ART UNIT	PAPER NUMBER
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2126

DATE MAILED: 08/28/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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# Office Action Summary

Application No.

09/361,371

Applicant(s)

WARWICK ET AL.

Examiner

The Thanh Ho

Art Unit

2126

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 10 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

### DETAILED ACTION

1. This action is in response to the amendment filed 7/10/2003.
2. Claims 1-23 have been examined and are pending in the application.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-5, 7-9, 12, 20 and 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Hyder U.S Patent No. 6,233,624.

As to claim 1, Hyder teaches a device driver (148, Fig. 2) provides information and perform actions (lines 13-40 column 6) associated with a hardware device (H/W 1, Fig. 2); and a driver library (134, Fig. 2) containing software routines (library of functions, line 67 column 5) for making the information and actions (functions incorporate functionality common to most device drivers, lines 5-8 column 6) accessible to a device driver monitor and control management system (TRANSPORT 132, Fig. 2), the library (134, Fig. 2) being accessible by the device driver (arrows between drivers

and 134, Fig. 2) to handle messages (136 and 156, Fig. 2) issued to the device driver by the management system.

As to claim 2, Hyder further teaches the device driver is configured with a unique software routine particular to the device driver (perform specific required processing, such as hardware specific operations, lines 2-4 column 6) and related to the hardware device (to manage a particular hardware or physical device, lines 4-5 column 6).

As to claim 3, Hyder further teaches the device driver is further configured to execute the unique software routine (perform an inherent process, line 22 column 7) in response to a call from the driver library (when directed by a call represented by 136 through 134, lines 24-25 column 7).

As to claim 4, Hyder further teaches the driver library is further configured to call the unique software routine (134 calls the corresponding driver, lines 25-26 column 6) and cause the unique software routine to execute (performs its inherent processing on the data packet, lines 26-27 column 6).

As to claim 5, Hyder further teaches the unique software routine is configured to retrieve data (when directed by a call represented by 136 through 134, lines 24-25 column 7) and perform actions (perform an inherent process, line 22 column 7) associated with the hardware device (to manage a particular hardware or physical device, lines 4-5 column 6).

As to claim 7, Hyder further teaches the unique software routine executes a method associated with the information (perform specific required processing, such as hardware specific operations, lines 2-4 column 6) associated with the hardware device

(to manage a particular hardware or physical device, lines 4-5 column 6), the method passes additional information between the device driver and the management system (lines 13-49 column 6).

As to claim 8, Hyder further teaches the driver library contains a software routine to format the additional information in a format consistent with the management system (messages are passed to 134 for decoding, lines 6-9 column 7).

As to claim 9, Hyder further teaches the driver library is a dynamically accessible (lines 13-40 column 6) software library.

As to claim 12, Hyder further teaches the driver library is a static library (a library of functions for interfacing to the kernel mode, line 67 column 5 to line 2 column 6) associated with the device driver.

As to claims 20 and 22, note the discussion of claim 1 above.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 6, 10-11, 13-19, 21 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable by Hyder in view of Cabrera US Patent No. 5,978,815.

As to claim 10, Hyder as disclosed above teaches all interactions between the management system, driver library and device drivers are executed as calls (lines 65-67 column 6). However, Hyder does not explicitly teach these calls are IRPs. Cabrera teaches IRPs are used as the form of messages passing between components of kernel mode (Fig. 7). It would have been obvious to apply the teachings of Cabrera to the system of Hyder because the device driver may use IRP as a form of request; therefore additional information may be added to the IRP before passing it to the next driver as disclosed by Cabrera (lines 36-53 column 16).

As to claim 11, note the discussion of claim 10 above. Cabrera further teaches a result will be returned (200, Fig. 7) to the management system, or a client process (172, Fig. 7).

As to claim 13, Hyder discloses receiving a message (136, Fig. 2) from the management system (note the discussion of management system in claim 1), the message including instructions regarding data maintained by an instrumented hardware device (data destined for dispatch across a network via physical devices, lines 53-55 column 5); passing the message (arrows between 134, 140 and 144, Fig. 2) to a driver library (134, Fig. 2) containing software routines for handling the instructions of the message (functions incorporate functionality common to most device drivers, lines 5-8 column 6); and handling the message by the driver library (lines 13-40 column 6). Hyder does not explicitly disclose the message is an IRP message. Cabrera teaches IRP. Note the discussion and reason of combining Hyder and Cabrera references in claim 10 above.

As to claim 14, Hyder as modified further discloses passing the IRP to the driver library comprises determining whether the IRP is intended for a particular device driver (the call or request is made into 134 with a destination driver indicator or handle, lines 17-19 column 6).

As to claim 15, Hyder as modified further discloses if the IRP is not intended for the particular device driver (134 evaluating the handle, lines 24-25 column 6), passing the IRP to a next device driver in a driver stack (calls the corresponding driver, lines 2427 column 6).

As to claim 16, Hyder as modified further discloses calling back to a device driver associated with the instrumented hardware device to request data from (make a calls or alternatively passes, lines 30-32 column 6) or perform an action by the device driver (144 performs its inherent process on the data, lines 36-37 column 6).

As to claim 17, Cabrera further teaches requesting that data be set (read/write data processing, 62 Fig. 3) at the instrumented hardware device (local storage 64, Fig. 3).

As to claim 18, note the discussions of claims 2-5 and 16 above.

As to claim 19, note the discussion of claim 8 above.

As to claim 6, note the discussion of claim 17 above.

As to claims 21 and 23, note the discussion of claim 13 above.

### ***Response to Arguments***

5. Applicant's arguments filed have been fully considered but they are not persuasive.

Applicant argued that Hyder does not teach a device driver monitor and control management system (Remarks, last paragraphs of pages 8 and 10). In response, device driver monitor and control management system is a limitation that is not claimed before. However, this limitation is met by Hyder as disclosed in the claim rejections above.

Applicant argued that Cabrera does not teach a device driver monitor and control management system (Remarks, second paragraphs of pages 9 and 12). In response, Hyder reference was used to teach this limitation, not Cabrera reference.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to The Thanh Ho whose telephone number is 703-306-5540. A voice mail service is also available for this number. The examiner can normally be reached on Monday – Friday, 8:30 am – 5:00 pm.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Any response to this action should be mailed to:

Commissioner for Patents

P.O Box 1450

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Art Unit: 2126

Or fax to:

- AFTER-FINAL faxes must be signed and sent to (703) 746 – 7238
- OFFICAL faxes must be signed and sent to (703) 746 – 7239
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TTH  
August 21, 2003



JOHN FOLLANSBEE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100